

What is claimed is:

1. A binderless storage phosphor panel or screen comprising a vacuum deposited phosphor layer (1) of CsBr:Eu, wherein amounts of Eu-dopant are in the range of from 100 up to 400 p.p.m. versus CsBr, on
5 a support (2) and wherein said support includes a layer of amorphous carbon (23).
2. A binderless storage phosphor panel or screen comprising a vacuum deposited phosphor layer (1) of CsBr:Eu, wherein amounts of Eu-dopant are in the range of from 100 up to 200 p.p.m. versus CsBr, on
10 a support (2) and wherein said support includes a layer of amorphous carbon (23).
3. A binderless phosphor panel or screen according to claim 1, wherein said support further includes a polymeric auxiliary layer (24) farther away from said phosphor layer than said layer of amorphous
15 carbon.
4. A binderless phosphor panel or screen according to claim 2, wherein said support further includes a polymeric auxiliary layer (24) farther away from said phosphor layer than said layer of amorphous carbon.
- 20 5. A binderless phosphor panel or screen according to claim 1, wherein said support further includes a reflective auxiliary layer (22).

6. A binderless phosphor panel or screen according to claim 2, wherein said support further includes a reflective auxiliary layer (22).

7. A binderless phosphor panel or screen according to claim 3, wherein said support further includes a reflective auxiliary layer (22).

5 8. A binderless phosphor panel or screen according to claim 4, wherein said support further includes a reflective auxiliary layer (22).

9. A binderless phosphor panel or screen according to claim 5, wherein said reflective auxiliary layer (22) is an aluminum layer with a thickness between 0.2 μm and 200 μm .

10 10. A binderless phosphor panel or screen according to claim 6, wherein said reflective auxiliary layer (22) is an aluminum layer with a thickness between 0.2 μm and 200 μm .

11. A binderless phosphor panel or screen according to claim 7, wherein said reflective auxiliary layer (22) is an aluminum layer with a
15 thickness between 0.2 μm and 200 μm .

12. A binderless phosphor panel or screen according to claim 8, wherein said reflective auxiliary layer (22) is an aluminum layer with a thickness between 0.2 μm and 200 μm .

13. A binderless phosphor panel or screen according to claim 5, wherein
20 said support further includes a protective auxiliary layer (21) between said reflective auxiliary layer and said phosphor layer.

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14. A binderless phosphor panel or screen according to claim 6, wherein
said support further includes a protective auxiliary layer (21)
between said reflective auxiliary layer and said phosphor layer.

15. A binderless phosphor panel or screen according to claim 7, wherein
5 said support further includes a protective auxiliary layer (21)
between said reflective auxiliary layer and said phosphor layer.

16. A binderless phosphor panel or screen according to claim 8, wherein
said support further includes a protective auxiliary layer (21)
between said reflective auxiliary layer and said phosphor layer.

10 17. A binderless phosphor panel or screen according to claim 9, wherein
said support further includes a protective auxiliary layer (21)
between said reflective auxiliary layer and said phosphor layer.

18. A binderless phosphor panel or screen according to claim 10, wherein
said support further includes a protective auxiliary layer (21)
15 between said reflective auxiliary layer and said phosphor layer.

19. A binderless phosphor panel or screen according to claim 11, wherein
said support further includes a protective auxiliary layer (21)
between said reflective auxiliary layer and said phosphor layer.

20. A binderless phosphor panel or screen according to claim 12, wherein
20 said support further includes a protective auxiliary layer (21)
between said reflective auxiliary layer and said phosphor layer.

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21. A binderless phosphor panel or screen according to claim 13, wherein said protective auxiliary layer is a layer of parylene wherein said parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

5 22. A binderless phosphor panel or screen according to claim 14, wherein said protective auxiliary layer is a layer of parylene wherein said parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

10 23. A binderless phosphor panel or screen according to claim 15, wherein said protective auxiliary layer is a layer of parylene wherein said parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

15 24. A binderless phosphor panel or screen according to claim 16, wherein said protective auxiliary layer is a layer of parylene wherein said parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

20 25. A binderless phosphor panel or screen according to claim 17, wherein said protective auxiliary layer is a layer of parylene wherein said parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

26. A binderless phosphor panel or screen according to claim 18, wherein said protective auxiliary layer is a layer of parylene wherein said

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parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

27. A binderless phosphor panel or screen according to claim 19, wherein said protective auxiliary layer is a layer of parylene wherein said parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

28. A binderless phosphor panel or screen according to claim 20, wherein said protective auxiliary layer is a layer of parylene wherein said parylene is selected from the group consisting of parylene C, parylene D and parylene HT.

29. A method for producing a binderless storage phosphor panel comprising the steps of :

- providing an amorphous carbon film,
- vacuum depositing a storage phosphor layer of CsBr:Eu, wherein amounts of Eu-dopant are in the range of from 100 up to 400 p.p.m. versus CsBr, on said amorphous carbon film and, optionally,
- laminating method a polymeric film on the side of the amorphous carbon film not covered by said phosphor.

30. A method for producing a binderless storage phosphor panel comprising the steps of :

- providing an amorphous carbon film,
- vacuum depositing a storage phosphor layer of CsBr:Eu, wherein amounts of Eu-dopant are in the range of from 100 up to 200 p.p.m.

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versus CsBr, on said amorphous carbon film and, optionally,
- laminating method a polymeric film on the side of the amorphous
carbon film not covered by said phosphor.

31. A method according to claim 29, wherein before said step of vacuum
5 depositing a storage phosphor layer on said amorphous carbon film a
step of applying a specularly reflecting layer on said amorphous
carbon film is included.

32. A method according to claim 30, wherein before said step of vacuum
depositing a storage phosphor layer on said amorphous carbon film a
10 step of applying a specularly reflecting layer on said amorphous
carbon film is included.

33. Use in mammography of a screen or panel according to claim 1.

34. Use in mammography of a screen or panel according to claim 2.

35. Use in mammography of a screen or panel according to claim 3.

15 36. Use in mammography of a screen or panel according to claim 4.

37. Use in mammography of a screen or panel according to claim 5.

38. Use in mammography of a screen or panel according to claim 6.

39. Use in mammography of a screen or panel according to claim 7.

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40. Use in mammography of a screen or panel according to claim 8.

41. Use in mammography of a screen or panel according to claim 9.

42. Use in mammography of a screen or panel according to claim 10.

43. Use in mammography of a screen or panel according to claim 11.

5 44. Use in mammography of a screen or panel according to claim 12.

45. Use in mammography of a screen or panel according to claim 13.

46. Use in mammography of a screen or panel according to claim 14.

47. Use in mammography of a screen or panel according to claim 15.

48. Use in mammography of a screen or panel according to claim 16.

10 49. Use in mammography of a screen or panel according to claim 17.

50. Use in mammography of a screen or panel according to claim 18.

51. Use in mammography of a screen or panel according to claim 19.

52. Use in mammography of a screen or panel according to claim 20.

53. Use in mammography of a screen or panel according to claim 21.

15 54. Use in mammography of a screen or panel according to claim 22.

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55. Use in mammography of a screen or panel according to claim 23.

56. Use in mammography of a screen or panel according to claim 24.

57. Use in mammography of a screen or panel according to claim 25.

58. Use in mammography of a screen or panel according to claim 26.

s 59. Use in mammography of a screen or panel according to claim 27.

60. Use in mammography of a screen or panel according to claim 28.